```
logo

NTDB id 48213 LMO4A RS07995 WP 012581289.1  MAEQESLALFNDTPEELFMKGTMLSTIFYNAENLFSVVRILVKETNADWDEKDIIVTGFFPALHEQEVYTFYGKMQEHAKFGQQF   85
NTDB id 355 BSU 27480 NP 390625.1           MQQH...PDQLKLEEEPYLKGTVNTVIYHNDTNLYTVLKVKVTETSEAIEDKAVSVTGYFPALQEEETYTFYGKIVTHPKFGLQF   82
consensus                                   !  *****     *!!***!!!* * !**!  !!**!*** ! !!    **! * !!!*!!!!*! ! !!!!!!*  !*!!! !!

logo

NTDB id 48213 LMO4A RS07995 WP 012581289.1  KADRFRKEMPQSRAGLISYLSGELFKGIGKVTAENIVDTIGDDAITKILSDPSLLNTVPKLPSGAAESLLASLRENQGLEHVMVG   170
NTDB id 355 BSU 27480 NP 390625.1           QAEHFKKEIPTTKEGIIQYLSSDLFEGIGKKTAEEIVKKLGDSAINKILADASVLYDVPRLSKKKADTLAGALQRHQGLEQIMIS   167
consensus                                    !**!*!!*! ** !*! !!! *!! !!!! !!! !!  *!! !! !!! !*!*!  !!*!*   !**! * !  *!!!!**!*

logo

NTDB id 48213 LMO4A RS07995 WP 012581289.1  LNEYGFGPQLSMKIFQAYKQNAIEVLENNPYKLIEDVKGIGFHRADELGRKLGLGGNHPERLRAGILFMLDSVCMQQGHVYMEQE   255
NTDB id 355 BSU 27480 NP 390625.1           LNQFGFGPQLSMKIYQAYESETLEKIQENPYQLVKDVEGIGFGKADELGSRMGLSGNHPERVKAAILYTLETTCLSEGHTYIETE   252
consensus                                   !! *!!!!!!!!!!*!!!    *! *  !!! !* !! !!!!**!!!!! **!! !!!!!!**!*!!* !** !*   !! !*! !

logo

NTDB id 48213 LMO4A RS07995 WP 012581289.1  VLLGEVTYLLEES..EGIRIDQNILVAQVEKLAEEQKIITENTRVYMPSLYYSESGFAYHVKRMLKQTEYQEQFPQSEFLLALGE   338
NTDB id 355 BSU 27480 NP 390625.1           QLIIDTQSLLNQSAREGQRITEMDAANAIIALGENKDIVIEDGRCYFPSLFYAEQNVAKRVKHIASQTEYENQFPESEFLLALGE   337
consensus                                    !* *   !!  !**!! !!        *  !*!   !* !  !*! !!!*! !   ! *!!**  !!!!  !!! !!!!!!!!!

logo

NTDB id 48213 LMO4A RS07995 WP 012581289.1  LEERIGVHYGDSQRQALEQALMSPMLVLTGGPGTGKTTVIKGIVELYAELNGVSLDPHAYKDGATFPVLLAAPTGRAAKRMSEST   423
NTDB id 355 BSU 27480 NP 390625.1           LEERMDVQYAPSQKEAIQKALSSPMLLLTGGPGTGKTTVIRGIVELYGELHGVSLDPSAYKKDEAFPIVLAAPTGRAAKRMSEST   422
consensus                                   !!!!* !*!**!!* !*  !! !!!!*!!!!!!!!!!!!!!*!!!!!!*!!*!!!!!!*!!!   !!**!!!!!!!!!!!!!!!!

logo

NTDB id 48213 LMO4A RS07995 WP 012581289.1  GLPAMTIHRLLGMNGQEQMDDDAERLIDGRLLIVDEMSMVDIWLANQLFRALPAHMQVVLVGDQDQLPSVGPGQVLKDILQSEQI   508
NTDB id 355 BSU 27480 NP 390625.1           GLPAVTIHRLLGWNGAEGFTHTEDQPIEGKLLIIDEASMLDIWLANHLFKAIPDHIQIIIVGDEDQLPSVGPGQVLRDLLASQVI   507
consensus                                   !!!!*!!!!!!! !! !   *  * *!*!*!!!*!! !!*!!!!!!*!!*!*! !*!***!!! !!!!!!!!!!!!*!*! !  !

logo

NTDB id 48213 LMO4A RS07995 WP 012581289.1  PTVALSDIYRQKDGSSIIEMAHYIKEGMLPADFTKNSADRSFFHCTVNQIGDVVEQVVKNAKNKGFRAKDIQVLAPMYRGPAGID   593
NTDB id 355 BSU 27480 NP 390625.1           PTVRLTDIYRQAEGSSIVELAHQMKNGLLPNNLTAPTKDRSFIRCGGSQIKEVVEKVVANALKKGYTAKDIQVLAPMYRGKAGIN   592
consensus                                   !!!  !*!!!!! *!!!!*!*!! *! !*!!   ! ** !!!! *!   !! *!!! !! !!  !!* !!!!!!!!!!!!!*!!!
```

```
logo
NTDB id 48213 LMO4A RS07995 WP 012581289.1  VLNKKLQEIFNPNDTGRRKEVQFGEIKYRVHDKVLQLINQPEKNVFNGDIGEIVSIIYAKENTEKQDLIVVQFDQTEVSYYRQEF   678
NTDB id 355 BSU 27480 NP 390625.1           ELNVMLQDILNPPKE.KRRELKFGDVVYRTGDKILQLVNQPENNVFNGDIGEITSIFYAKENTEKEDMAVVSFDGNEMTFTKKDF   676
consensus                                    !!  !!*! !!*  **!*!* !!** !! *!!*!!!*!!!! !!!!!!!!!! !! !!!!!!!! !* !! !!  !*** * *!

logo
NTDB id 48213 LMO4A RS07995 WP 012581289.1  NQLTHAYCCSIHKAQGSEFPIVIMPIVRSYYRMLRRDLLYTGVTRSKQFLILCGEEEAFRMGIERIDENKRNTTLSERLMSEDVL   763
NTDB id 355 BSU 27480 NP 390625.1           NQFTHAYCCSIHKSQGSEFPIVVLPVVKGYYRMLRRNLLYTAITRAKKFLILCGEEEALEWGVKNNDATVRQTSLKNRLSVQVEE   761
consensus                                   !! !!!!!!!!!! !!!!!!!!**!*!* !!!!!!! !!!!**!! ! !!!!!!!!!!   !*   !   !*!*!  !!

logo
NTDB id 48213 LMO4A RS07995 WP 012581289.1  LEQMTNKRILTAENITEIDPMIGMEGITPEQFMAG...   798
NTDB id 355 BSU 27480 NP 390625.1           MDA.ELEALQKELPFSVHDANIGMEGITPFDFMKEEQQ   798
consensus                                   ** *    *    * * *!* !!!!!!!!  !!  ***
```

X non conserved

X similar

X $\geq$ 50% conserved